Current Claims for
Serial No. 09/234,733
(9000-0030.10)

1. (Twice amended) An isolated nucleic acid molecule consisting of a sequence selected from the group consisting of: (a) a sequence having at least about 80% identity to the nucleotide sequence shown at positions 157 through 924, inclusive, of Figures 4A-4C (SEQ ID NO:1); and (b) a sequence encoding an amino acid sequence having at least about 80% identity to the nucleotide sequence shown at positions 241 through 924, inclusive, of Figures 4A-4C (SEQ ID NO:1).

2. (Three times amended) The nucleic acid molecule of claim 1 wherein said sequence has at least about 90% identity to the nucleotide sequence shown at positions 157 through 924, inclusive, of Figures 4A-4C (SEQ ID NO:1).

3. (Three times amended) The nucleic acid molecule of claim 1 wherein said sequence has at least about 90% identity to the nucleotide sequence shown at positions 241 through 924, inclusive, of Figures 4A-4C (SEQ ID NO:1).

4. (Twice amended) A recombinant vector comprising:

(a) a nucleic acid molecule comprising a sequence selected from the group consisting of: (i) a sequence having at least about 80% identity to the nucleotide sequence shown at positions 157 through 924, inclusive, of Figures 4A-4C (SEQ ID NO:1); and (ii) a sequence having at least about 80% identity to the nucleotide sequence shown at positions 241 through 924, inclusive, of Figures 4A-4C (SEQ ID NO:1); and

(b) control elements that are operably linked to said nucleic acid molecule whereby said coding sequence can be transcribed and translated in a host cell, and at least one of said control elements is heterologous to said coding sequence.

acid molecule comprises a sequence having at least about 90% identity to the nucleotide sequence shown at positions 157 through 924, inclusive, of Figures 4A-4C (SEQ ID NO:1).

6. (Twice amended) A recombinant vector according to claim 4, wherein said nucleic acid molecule comprises a sequence having at least about 90% identity to the nucleotide sequence shown at positions 241 through 924, inclusive, of Figures 4A-4C (SEQ ID NO:1).

7. A host cell transformed with the recombinant vector of claim 4.

8. A host cell transformed with the recombinant vector of claim 5.

9. A host cell transformed with the recombinant vector of claim 6.

10. A method of producing a recombinant CAMP factor comprising:

(a) providing a population of host cells according to claim 7; and

(b) culturing said population of cells under conditions whereby the CAMP factor encoded by the coding sequence present in said recombinant vector is expressed.

11. A method of producing a recombinant CAMP factor comprising:

(a) providing a population of host cells according to claim 8; and

(b) culturing said population of cells under conditions whereby the CAMP factor encoded by the coding sequence present in said recombinant vector is expressed.

12. A method of producing a recombinant CAMP factor comprising:

(a) providing a population of host cells according to claim 9; and

(b) culturing said population of cells under conditions whereby the CAMP factor encoded by the coding sequence present in said recombinant vector is expressed.